

PRODUCTION OF ELECTRICALLY CONDUCTIVE TITANIUM DIOXIDE POWDER

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Abstract of JP4154621

PURPOSE:To obtain TiO₂ powder having excellent electrical conductivity and whiteness by forming a coating layer of SnO₂ on the surface of a (hydrated) TiO₂ particle. CONSTITUTION:An aqueous suspension of TiO₂ or hydrated TiO₂ is heated at 40-90 deg.C under agitation. A solution of an Sn salt (e.g. SnCl₄) and an alkali or acid are slowly added to the above hot suspension to form a coating layer of SnO₂ hydrate on the surface of the TiO₂ particle. The amount of the coating layer is 1-30wt.% (in terms of SnO₂) based on TiO₂. The aqueous suspension is filtered and washed, the obtained cake is fractionated and recovered and, as necessary, the recovered material is dried and crushed. Finally, the product is heat-treated at 250-600 deg.C for 30min to 5hr in a non-oxidizing atmosphere (preferably in an inert atmosphere).

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